SIEMENS

Data sheet

Model

3VA5111-5EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=110A overload protection Ir=110A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAS
Product version	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
Max. rated operational voltage Ue with DC	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.6 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
communication function	No
 other measurement function 	No
Net Weight	1.034 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	110 A
● at 45 °C	107 A
• at 50 °C	105 A
● at 55 °C	103 A
● at 60 °C	100 A

105.00	00.4
at 65 °C at 70 °C	98 A 96 A
Switching capacity according to IEC 60947	30 A
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
● at 690 V	7 kA
breaking capacity operating short-circuit current (lcs)	
● at 240 V	85 kA
● at 415 V	55 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	407 1.4
at 240 V at 415 V	187 kA 121 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
coorgin on one or our procession	circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	in the last ellapter
breaking capacity current	
• at 240 V	85 kA
● at 480 V	35 kA
● at 600 Y/347 V	18 kA
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
type of value list setting current (Ir) / for L-tripping / with I2t characteristic	Fest
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In
set values setting current (Ir) / for L-tripping / with I2t characteristic	1
adjustable response factor setting current (Ir) / for L-tripping / with I2t characteristic / minimum	1
adjustable response factor setting current (Ir) / for L-tripping / with I2t characteristic / maximum	1
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	110 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	110 A
type of value list delay time (tr) / for L-tripping / with I2t characteristic	Fest
reference value delay time (tr) / for L-tripping / with I2t characteristic	S
set values delay time (tr) / for L-tripping / with I2t characteristic	1
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	1 s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	1 s
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (Ii) / for I-tripping adjustable response factor setting current (Ii) / for I- tripping / minimum	5;6;7;8;9;10 5
adjustable response factor setting current (li) / for l-tripping / maximum	10
adjustable response value setting current (li) / for l-tripping / minimum	550 A
adjustable response value setting current (li) / for l-tripping / maximum	1 100 A
product feature / for G-tripping / selectable characteristic function	No

product feature / with neutral conductor protection / can be switched on/off	No
product feature / with neutral conductor protection / adjustable	Yes
type of value list setting current (InN) / for N-tripping	St
reference value setting current (InN) / for N-tripping	x In
adjustable absolute value setting current (InN) / for N-tripping / minimum	0 A
adjustable absolute value setting current (InN) / for N-tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_110A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_110A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_110A_TMuMCS110_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_110A_TMuMCS110_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_110A_TMuMCS110_line u starter_3u4p_690V
type of value list setting current (li) / for I-tripping	St DO OVAE 4 4400 The MOOddo Fire wester to Ovae 0400/
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_110A_TMuMCS110_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_110A_TMuMCS110_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_110A_TMuMCS110_line u starter_3u4p_690V
Adjustable response value current / lg min.	110 A
adjustable current response value current / of the current- dependent overload release / full-scale value	110 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
 undervoltage release 	No
 voltage trigger 	No
 trip indicator 	No
height [in]	5.51 in
Height	140 mm
width [in]	3 in
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (8 AWG - 3/0)
Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C
 during operation / maximum 	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	

Confirmation









Miscellaneous











Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5111-5EC36-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA5111-5EC36-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

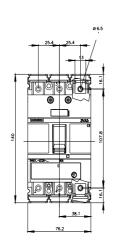
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5111-5EC36-0AA0

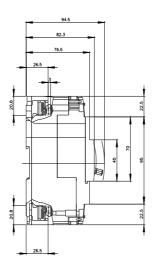
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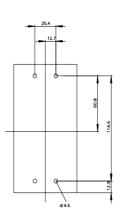
http://www.siemens.com/cax

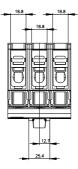
Tender specifications

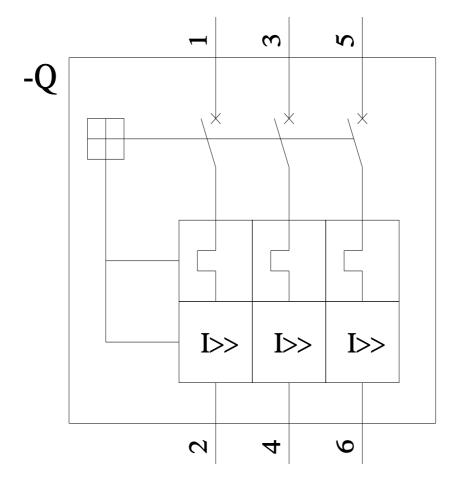
http://www.siemens.com/specifications

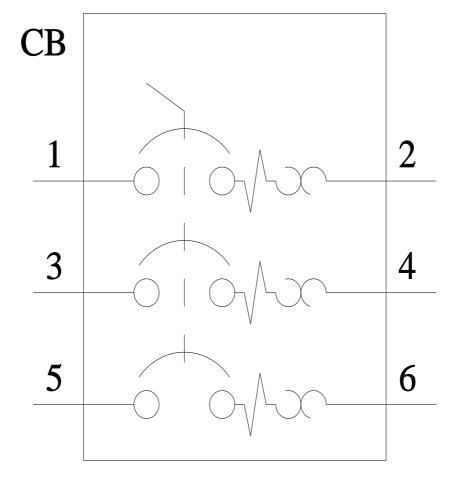












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